

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

10/540139

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number
WO 2004/056340 A2

(51) International Patent Classification⁷: A61K 9/14

(21) International Application Number:
PCT/EP2003/014740

(22) International Filing Date:
22 December 2003 (22.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI2002A002748
23 December 2002 (23.12.2002) IT

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: STABILISED SOLID DRUG DISPERSIONS IN AN ORGANIC CARRIER AND A PROCESS FOR PREPARING
THE SAME

(57) Abstract: New solid drug dispersions are described in which the drug is present in amorphous form and massively dispersed (in bulk) inside the particles of an organic carrier selected from cross-linked polymers and/or a complexing agents. These dispersions are obtainable by mixing together the drug and the carrier and applying an oscillating electromagnetic field to the mixture, to a frequency belonging to the microwave region; the microwaves are applied according to a specific heating cycle wherein the drug-carrier mixture is heated at a temperature higher than the melting point of the drug for at least 5 minutes. With respect to the known techniques, the present invention allows to increase in the amount of drug incorporated into the carrier in amorphous form, and to increase the physical stability of the amorphous phase. This is particularly useful in the preparation of pharmaceutical compositions based on drugs which are crystalline in nature, such as are notoriously sparingly soluble in water: thanks to the increased amounts and stability of the drug in amorphous form, the resulting formulations have a more rapid and intense effect, and are endowed with greater bioavailability.

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